



MEETING MINUTES

PROJECT: Water Treatment Plant	PAGE: 1 of 2
OWNER: City of Long Beach	PROJECT NUMBER: 08856
MEETING DATE: 2/8/11	CONTRACTOR: Rotschy, Inc.

PRESENT: Rick Gray, City of Long Beach
Casey Danforth, Rotschy, Inc.
Dan Naughton, PACE Engineers, Inc.

1. COMMENTS ON PREVIOUS MEETING:

- No discussion.

2. SCHEDULE:

- See the attached draft start-up schedule.
 - A. The delivery date of the VTPs has not been confirmed by the supplier and will affect the entire start-up schedule if delivery is delayed.
 - B. The City will verify the chlorine dioxide generator conversion and start-up dates.
 - C. The City will verify the telephone/DSL install dates.
 - D. Dates and durations have been estimated for the various vendor/supplier tasks and for the raw water impound start-ups.
 - E. Rotschy will coordinate the start-up schedule with all applicable vendors and parties including the City and PACE.
 - F. PACE will forward the start-up schedule to DOH.
 - G. PACE will coordinate with the Pall programmer to determine when he will be on-site.

3. O&M MANUALS:

- No discussion.

4. RFI'S:

- Response to RFI 45 forthcoming.

5. PROPOSED CHANGE ORDERS:

- PACE voiced concerns with Item #6 of Change Order #3.
 - ATS/Genset Start Wires: This item appears to be included in the contract documents and should not be a cost increase to the Owner. Per Specification 16415, Part 3.03 A.: "Match type and number of cables and conductors to control and communication requirements of transfer switches as recommended by manufacturer. Increase conductor number and raceway sizes at no additional cost to Owner if necessary to accommodate additional required wiring." Rotschy and their electrician will review this portion of the change order.
 - Instrument Panel Wiring: This change originated from the Pall representative during his site visit and he noticed that the off-skid instruments were powered according to the electrical plans which is slightly different than what is shown on the Pall plans. All off-skid instruments are on the same circuit with a 20 amp breaker. Apparently Pall typically powers the off-skid instruments individually with separate 1 amp breakers. PACE understands that either means of powering the off-skid instruments is adequate. PACE will confirm with Pall that how the instruments are powered has no effect upon the ability to remotely diagnose the individual instruments. Assuming Pall is in agreement, this item will be eliminated from the change order.

6. CONSTRUCTION ISSUES:

- The PUD vault installed by the PUD adjacent to the generator may not have adequate clearance from the generator. Later in the afternoon, Casey and Rick relocated the PUD vault to the correct location.
- Discussed chlorine delivery to the CHN skid. PACE has found an air driven pump that appears to meet the delivery requirements and Rick Gray has approved it. PACE is proposing to mount the pump on the base of the CHN skid. PACE will forward the pump to Pall for their approval including placement and controls. The suction piping from the chlorine storage tank to the CHN skid will need to be revised and



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upsized to 1" to accommodate the pump. The City has 1" piping, fittings, valves, and a wye strainer for this purpose. Rotschy will need to provide pipe clamps. The City will research an appropriate calibration tube for the pump. No pumps should be ordered and no work should be completed until all parties have approved the proposed pump.

- PACE will consult with Pall regarding the maximum distance they have run the ¼" air lines that operate the caustic and citric acid pumps.

7. CONTRACTOR CONCERNS:
























































- No discussion.

8. ENGINEER / CITY CONCERNS:

- No discussion.

9. Q & A:

- No discussion.

ID		Task Name	Duration	Start	Finish	February		March					Apr			
						1/23	1/30	2/6	2/13	2/20	2/27	3/6		3/13	3/20	3/27
1		LONG BEACH WTP START-UP SCHEDULE:	35 days	Mon 2/7/11	Fri 3/25/11											
2		PALL CORPORATION TASKS	29 days	Tue 2/15/11	Fri 3/25/11											
3		Install and testing	3 days	Tue 2/15/11	Thu 2/17/11											
4		On-site programming and controls	1 wk	Mon 3/7/11	Fri 3/11/11											
5		WTP start-up/testing	5 days	Mon 3/7/11	Fri 3/11/11											
6		System integration/training	2 wks	Mon 3/14/11	Fri 3/25/11											
7		VENDOR/SUPPLIER TASKS	18 days	Mon 2/21/11	Wed 3/16/11											
8		Chlorine generator start-up/training	1 day	Mon 3/7/11	Mon 3/7/11											
9		WTP and Dohman Impound Genset start-up/training	1 day	Tue 3/8/11	Tue 3/8/11											
10		Chemical feed systems calibration/training	2 days	Wed 3/9/11	Thu 3/10/11											
11		Chlorite analyzers calibration/training	1 day	Fri 3/11/11	Fri 3/11/11											
12		SCM and chlorine & chlorine dioxide residual analyzers calibration/training	1 day	Fri 3/11/11	Fri 3/11/11											
13		Flowmeters, pressure transducers, and level indicators calibration/training	2 days	Fri 3/11/11	Mon 3/14/11											
14		Turbidimeters calibration/training	1 day	Mon 3/14/11	Mon 3/14/11											
15		pH/temperature monitors calibration/training	1 day	Tue 3/15/11	Tue 3/15/11											
16		Sample pumps calibrationtraining	1 day	Wed 3/16/11	Wed 3/16/11											
17		Peristaltic pumps calibration/training	1 day	Wed 3/16/11	Wed 3/16/11											
18		Main Impound raw water pumps calibration/training	1 day	Mon 2/21/11	Mon 2/21/11											
19		Dohman Impound VTPs calibration/training	1 day	Tue 3/8/11	Tue 3/8/11											
20		Clearwell VTPs calibration/training	1 day	Tue 3/8/11	Tue 3/8/11											
21		Potable water pumps calibration/training	1 day	Mon 2/21/11	Mon 2/21/11											
22		Dohman Impound radio telemetry calibration/training	2 days	Thu 2/24/11	Fri 2/25/11											
23		CITY TASKS	23 days	Mon 2/7/11	Wed 3/9/11											
24		Chlorine dioxide generator re-build/start-up/training	3 days	Mon 3/7/11	Wed 3/9/11											
25		Telephone/DSL install	15 days	Mon 2/7/11	Fri 2/25/11											
26		PUD power install	2 days	Tue 2/8/11	Wed 2/9/11											
27		ROTSCHY CRITICAL PATH ITEMS:	24 days	Mon 2/7/11	Thu 3/10/11											
28		Complete all electrical work	10 days	Mon 2/7/11	Fri 2/18/11											
29		Install clearwell VTPs	6 days	Mon 2/28/11	Mon 3/7/11											
30		Install Dohman VTPs	6 days	Mon 2/28/11	Mon 3/7/11											
31		Main Impound start-up	2 days	Tue 2/22/11	Wed 2/23/11											
32		Dohman Impound start-up	2 days	Wed 3/9/11	Thu 3/10/11											

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